

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/441,723DATE: 02/21/2001
TIME: 23:50:49

INPUT SET: S36415.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

H7

SEQUENCE LISTING

(1) General Information

ENTERED

(i) APPLICANT: Shah, Purvi
Hillman, Jennifer L.
Lal, Preeti
Corley, Neil C.

(ii) TITLE OF THE INVENTION: NEW GLUTATHIONE-S-TRANSFERASE

(iii) NUMBER OF SEQUENCES: 3

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Incyte Pharmaceuticals, Inc.
(B) STREET: 3174 Porter Drive
(C) CITY: Palo Alto
(D) STATE: CA
(E) COUNTRY: USA
(F) ZIP: 94304

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Diskette
(B) COMPUTER: IBM Compatible
(C) OPERATING SYSTEM: DOS
(D) SOFTWARE: FastSEQ for Windows Version 2.0

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 09/441,723
(B) FILING DATE:
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/978,174
(B) FILING DATE:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Billings, Lucy J.
(B) REGISTRATION NUMBER: 36,749
(C) REFERENCE/DOCKET NUMBER: PF-0430 US

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 650-855-0555
(B) TELEFAX: 650-845-4166
(C) TELEX:

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(2) INFORMATION FOR SEQ ID NO:1:

49

50

(i) SEQUENCE CHARACTERISTICS:

51

(A) LENGTH: 226 amino acids

52

(B) TYPE: amino acid

53

(C) STRANDEDNESS: single

54

(D) TOPOLOGY: linear

55

56

(vii) IMMEDIATE SOURCE:

57

(A) LIBRARY: BLADTUT04

58

(B) CLONE: 1554593

59

60

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

61

62

Met Gly Pro Leu Pro Arg Thr Val Glu Leu Phe Tyr Asp Val Leu Ser

63

1 5 10 15

64

Pro Tyr Ser Trp Leu Gly Phe Glu Ile Leu Cys Arg Tyr Gln Asn Ile

65

20 25 30

66

Trp Asn Ile Asn Leu Gln Leu Arg Pro Ser Leu Ile Thr Gly Ile Met

67

35 40 45

68

Lys Asp Ser Gly Asn Lys Pro Pro Gly Leu Leu Pro Arg Lys Gly Leu

69

50 55 60

70

Tyr Met Ala Asn Asp Leu Lys Leu Leu Arg His His Leu Gln Ile Pro

71

65 70 75 80

72

Ile His Phe Pro Lys Asp Phe Leu Ser Val Met Leu Glu Lys Gly Ser

73

85 90 95

74

Leu Ser Ala Met Arg Phe Leu Thr Ala Val Asn Leu Glu His Pro Glu

75

100 105 110

76

Met Leu Glu Lys Ala Ser Arg Glu Leu Trp Met Arg Val Trp Ser Arg

77

115 120 125

78

Asn Glu Asp Ile Thr Glu Pro Gln Ser Ile Leu Ala Ala Ala Glu Lys

79

130 135 140

80

Ala Gly Met Ser Ala Glu Gln Ala Gln Gly Leu Leu Glu Lys Ile Ala

81

145 150 155 160

82

Thr Pro Lys Val Lys Asn Gln Leu Lys Glu Thr Thr Glu Ala Ala Cys

83

165 170 175

84

Arg Tyr Gly Ala Phe Gly Leu Pro Ile Thr Val Ala His Val Asp Gly

85

180 185 190

86

Gln Thr His Met Leu Phe Gly Ser Asp Arg Met Glu Leu Leu Ala His

87

195 200 205

88

Leu Leu Gly Glu Lys Trp Met Gly Pro Ile Pro Pro Ala Val Asn Ala

89

210 215 220

90

Arg Leu

91

225

92

93

(2) INFORMATION FOR SEQ ID NO:2:

94

95

(i) SEQUENCE CHARACTERISTICS:

96

(A) LENGTH: 1035 base pairs

97

(B) TYPE: nucleic acid

98

(C) STRANDEDNESS: single

99

(D) TOPOLOGY: linear

RAW SEQUENCE LISTING PATENT APPLICATION US/09/441,723

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101

(vii) IMMEDIATE SOURCE:

102

(A) LIBRARY: BLADTUT04

103

(B) CLONE: 1554593

104

105

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

106

107

GGGCAGCCTC TGCCGGGTTC CGGGAAAAGG AGCTCCTGCT GCCACTGCTC TTCCGGAGCC 60

108

TGCAGCATGG GGCCCCTGCC GCGCACCGTG GAGCTCTTCT ATGACGTGCT GTCCCCCTAC 120

109

TCCTGGCTGG GCTTCGAGAT CCTGTGCCGG TATCAGAATA TCTGGAACAT CAACCTGCAG 180

110

TTGCGGCCCA GCCTCATAAC AGGGATCATG AAAGACAGTG GAAACAAGCC TCCAGGTCTG 240

111

CTTCCCCGCA AAGGACTATA CATGGCAAAT GACTTAAAGC TCCTGAGACA CCATCTCCAG 300

112

ATTCCCATCC ACTTCCCCAA GGATTTCTTG TCTGTGATGC TTGAAAAAGG AAGTTTGTCT 360

113

GCCATGCGTT TCCTCACCGC CGTGAACCTG GAGCATCCAG AGATGCTGGA GAAAGCGTCC 420

114

CGGGAGCTGT GGATGCGCGT CTGGTCAAGG AATGAAGACA TCACCGAGCC GCAGAGCATC 480

115

CTGGCGGCTG CAGAGAAGGC TGGTATGTCT GCAGAACAAG CCCAGGGACT TCTGGAAAAG 540

116

ATCGCAACGC CAAAGGTGAA GAACCAGCTC AAGGAGACCA CTGAGGCAGC CTGCAGATAC 600

117

GGAGCCTTTG GGCTGCCCAT CACCGTGGCC CATGTGGATG GCCAAACCCA CATGTTATTT 660

118

GGCTCTGACC GGATGGAGCT GCTGGCGCAC CTGCTGGGAG AGAAGTGGAT GGGCCCTATA 720

119

CCTCCAGCCG TGAATGCCAG ACTTTAAGAT TGCCCGGAGG AAGCAAATC TTCGTATAAA 780

120

AAAAGCAGGC CATCTGCTTA ACCCTTGGCT CCACCATAAG GCACTGGGAC TCGGATTTCT 840

121

CTATCTGATA GAGGTATTTT CTGTGGCCCT GGGAGCTGTC TGTCTTTCCC CTACCCCCAA 900

122

GGATGCCAGG AAGACGTCCA CCATTAGCCA TGTGGCAACC TTTACTTCTA TGCCTCACAA 960

123

GTGCCTTTCA GAGAGCCCCA ATTCTGCTTT CCCACAAAT AAACCTAATG CCATCAGGCA 1020

124

AAACAAAAAA AAAAA 1035

125

126

(2) INFORMATION FOR SEQ ID NO:3:

127

128

(i) SEQUENCE CHARACTERISTICS:

129

(A) LENGTH: 226 amino acids

130

(B) TYPE: amino acid

131

(C) STRANDEDNESS: single

132

(D) TOPOLOGY: linear

133

134

(vii) IMMEDIATE SOURCE:

135

(A) LIBRARY: GenBank

136

(B) CLONE: ?

137

138

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

139

140

Met Gly Pro Ala Pro Arg Val Leu Glu Leu Phe Tyr Asp Val Leu Ser

141

1 5 10 15

142

Pro Tyr Ser Trp Leu Gly Phe Glu Val Leu Cys Arg Tyr Gln His Leu

143

20 25 30

144

Trp Asn Ile Lys Leu Lys Leu Arg Pro Ala Leu Leu Ala Gly Ile Met

145

35 40 45

146

Lys Asp Ser Gly Asn Gln Pro Pro Ala Met Val Pro His Lys Gly Gln

147

50 55 60

148

Tyr Ile Leu Lys Glu Ile Pro Leu Leu Lys Gln Leu Phe Gln Val Pro

149

65 70 75 80

150

Met Ser Val Pro Lys Asp Phe Phe Gly Glu His Val Lys Lys Gly Thr

151

85 90 95

152

Val Asn Ala Met Arg Phe Leu Thr Ala Val Ser Met Glu Gln Pro Glu

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PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/441,723

DATE: 02/21/2001
TIME: 23:50:50

INPUT SET: S36415.raw

Line

Error

Original Text

PAGE: 1

SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION US/09/441,723

DATE: 02/21/20
TIME: 23:50:50

INPUT SET: S36415.raw

< < THERE ARE NO ITEMS MISSING > >

SEQUENCE CORRECTION REPORT
PATENT APPLICATION US/09/441,723DATE: 02/21/2001
TIME: 23:50:50*INPUT SET: S36415.raw*

Line	Original Text	Corrected Text
3	(1) General Information	(1) GENERAL INFORMATION:
10	(ii) TITLE OF THE INVENTION: NEW GLUTATHIONE-	(ii) TITLE OF INVENTION: NEW GLUTATHIONE-S-TR